

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122118\
 Data File : VF061126.D
 Acq On : 21 Dec 2018 15:17
 Operator : VA/AP
 Sample : J6196-11RE
 Misc : 7.37g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-01-121818-CRE

Quant Time: Dec 21 16:02:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	187758	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.63	114	255340	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.81	117	42507	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.57	152	74329	50.00	ug/l	0.03

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	13019	5.39	ug/l	0.04
Spiked Amount	50.000		Recovery	=	10.78%	
35) Dibromofluoromethane	4.14	113	15179	7.42	ug/l	0.03
Spiked Amount	50.000		Recovery	=	14.84%	
50) Toluene-d8	7.58	98	2216	0.38	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.76%	
62) 4-Bromofluorobenzene	11.44	95	13509	5.06	ug/l	0.03
Spiked Amount	50.000		Recovery	=	10.12%	

Target Compounds

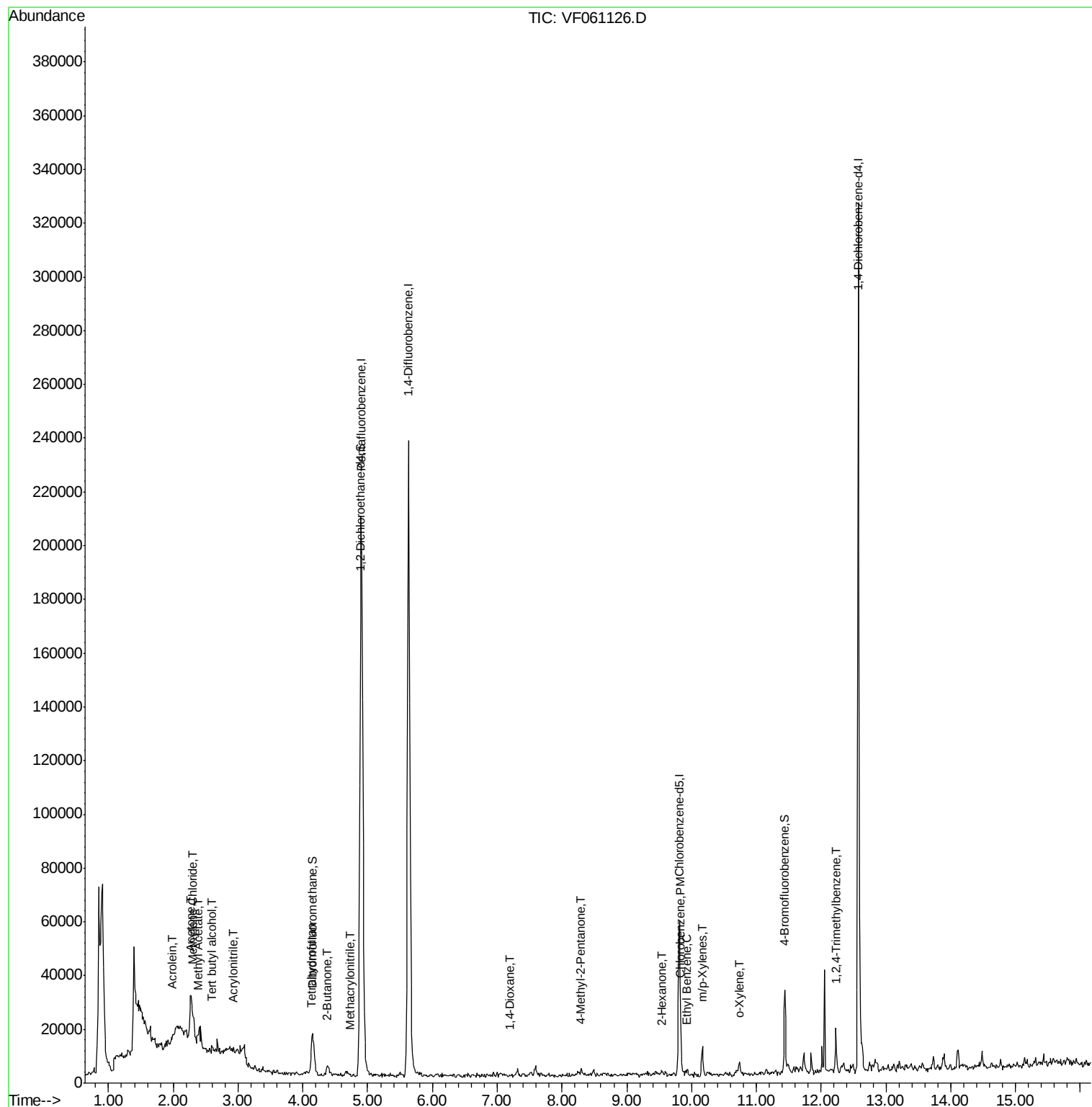
						Qvalue
11) Tert butyl alcohol	2.58	59	126	1.293	ug/l #	1
13) Acrolein	2.00	56	334	4.743	ug/l	91
15) Acrylonitrile	2.94	53	294	1.305	ug/l #	8
16) Acetone	2.27	43	27029	55.988	ug/l	94
18) Methyl Acetate	2.37	43	7776	7.785	ug/l	96
20) Methylene Chloride	2.31	84	9605	1.905	ug/l #	74
25) 2-Butanone	4.38	43	7535	9.624	ug/l #	89
29) Tetrahydrofuran	4.12	42	389	1.221	ug/l #	63
41) Methacrylonitrile	4.74	41	853	1.310	ug/l #	48
49) 1,4-Dioxane	7.20	88	77	10.214	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	2158	2.114	ug/l #	87
59) 2-Hexanone	9.55	43	1941	2.630	ug/l	82
65) Chlorobenzene	9.84	112	1036	1.180	ug/l #	40
67) Ethyl Benzene	9.93	91	1798	1.124	ug/l #	85
68) m/p-Xylenes	10.16	106	3007	5.341	ug/l	88
69) o-Xylene	10.74	106	1241	1.987	ug/l	83
70) Styrene	10.81	104	330	Below Cal	#	30
84) 1,2,4-Trimethylbenzene	12.23	105	6736	1.281	ug/l	97
87) 1,3-Dichlorobenzene	12.50	146	195	Below Cal	#	72

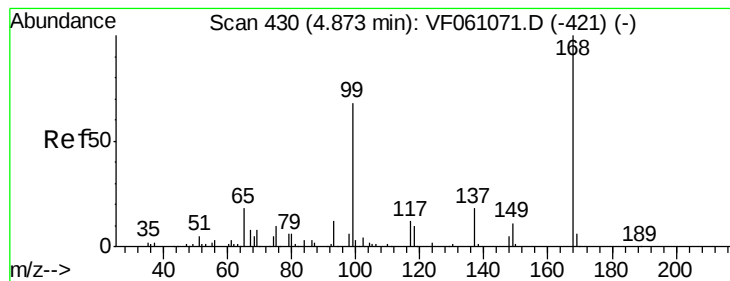
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.04 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

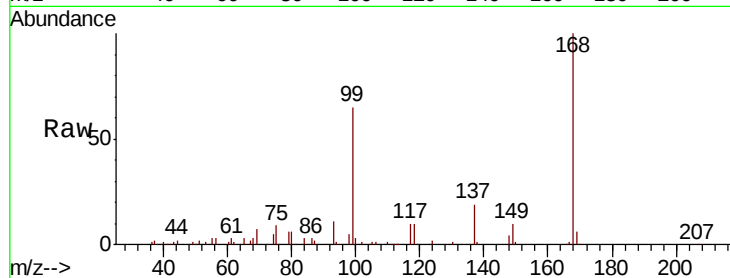
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

Tot Ion:168 Resp: 187758

Ion Ratio Lower Upper

168 100

99 65.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.91

60000

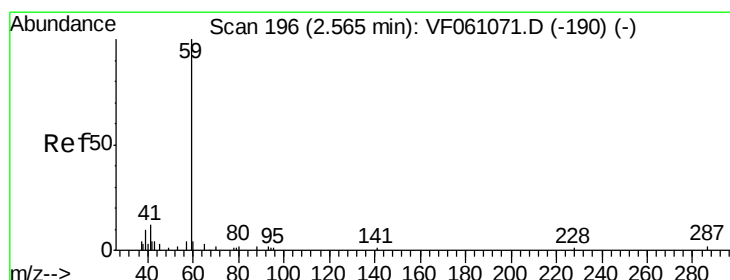
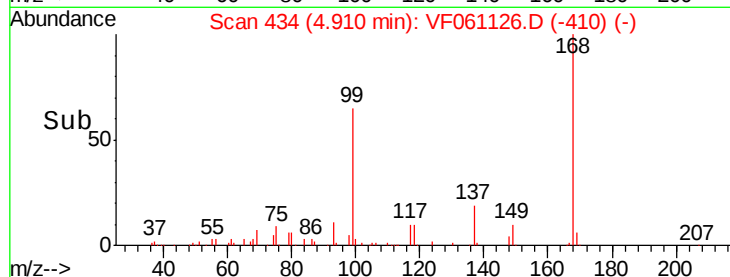
40000

20000

0

Time-->

4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 1.293 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061126.D

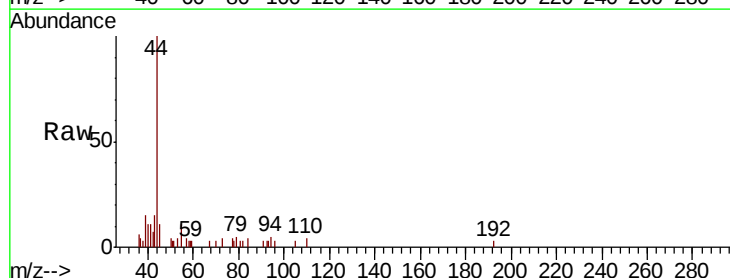
Acq: 21 Dec 2018 15:17

Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

59 100

57 66.2 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

250

200

150

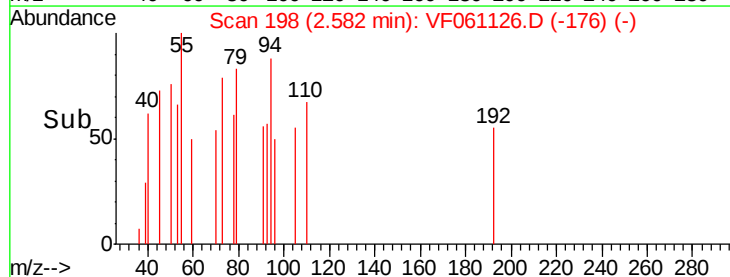
100

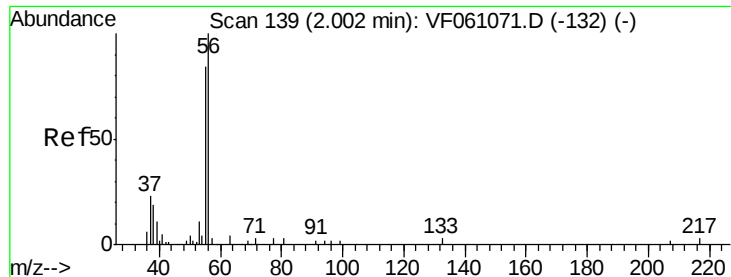
50

0

Time-->

2.56 2.58 2.60





#13

Acrolein

Concen: 4.743 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

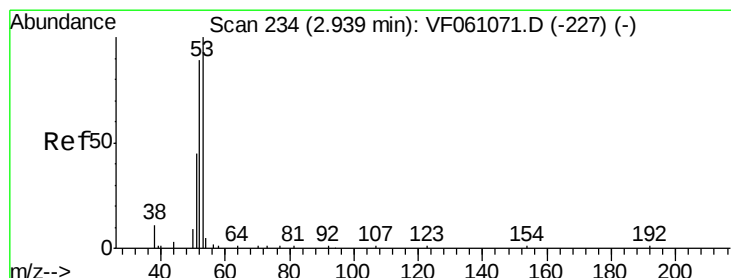
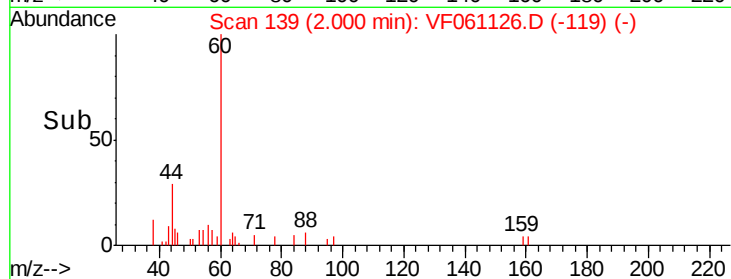
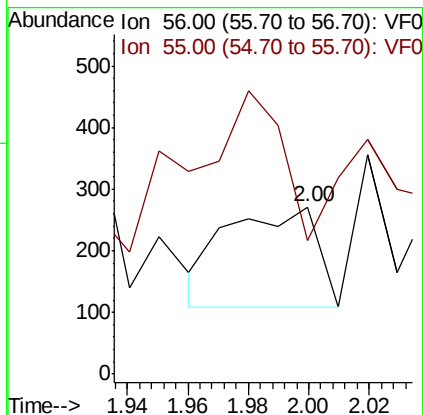
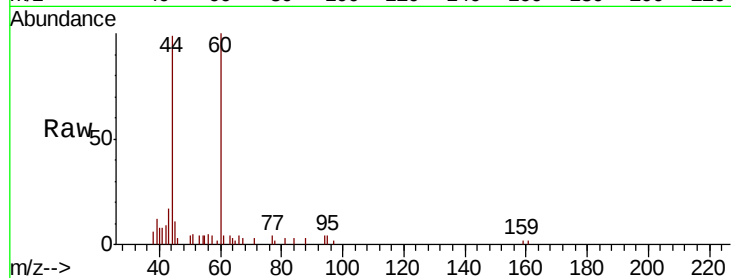
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

Tot Ion: 56 Resp: 334

Ion Ratio Lower Upper

56 100

55 79.7 70.2 105.2



#15

Acrylonitrile

Concen: 1.305 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

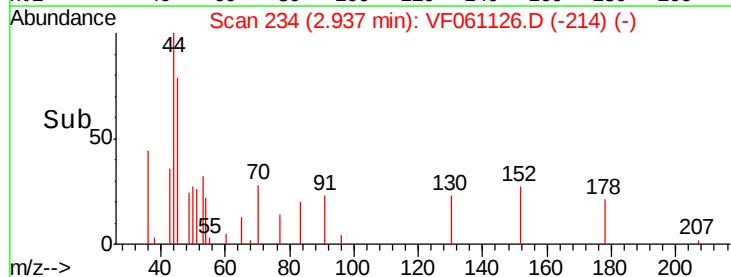
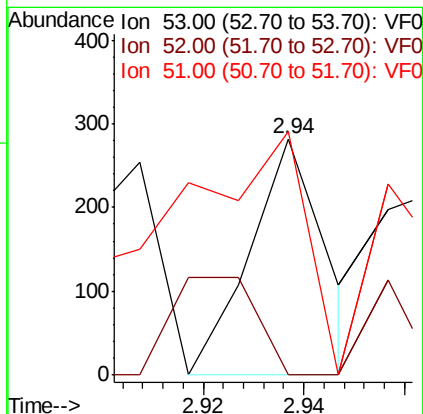
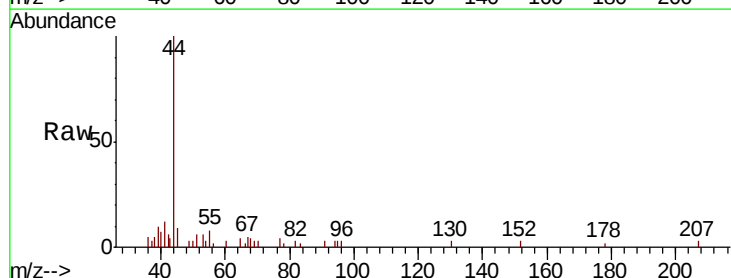
Tgt Ion: 53 Resp: 294

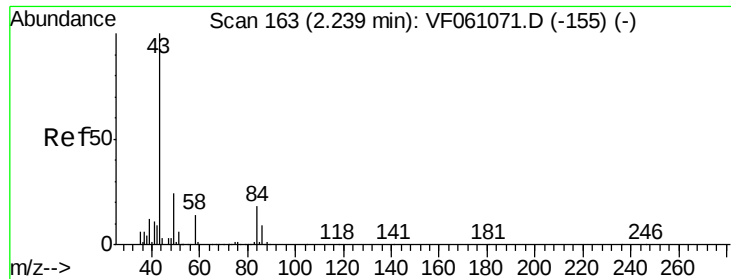
Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 103.2 36.8 55.2#





#16

Acetone

Concen: 55.988 ug/l

RT: 2.27 min Scan# 166

Delta R.T. 0.03 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

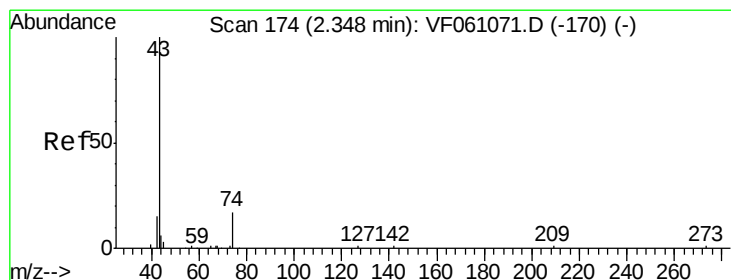
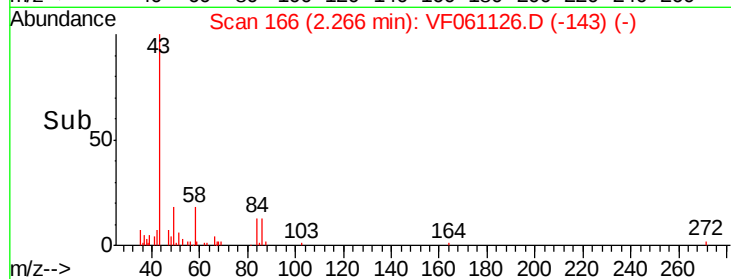
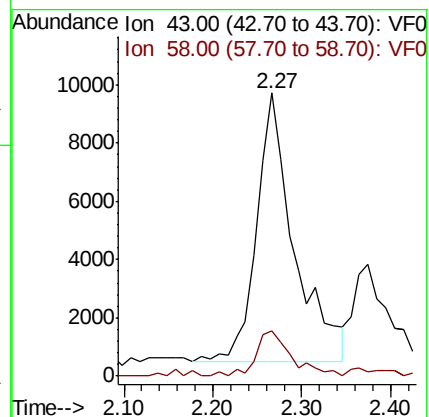
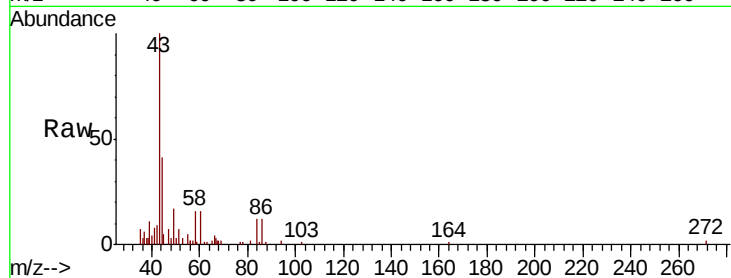
EO-01-121818-CRE

Tot Ion: 43 Resp: 27029

Ion Ratio Lower Upper

43 100

58 16.1 11.1 16.7



#18

Methyl Acetate

Concen: 7.785 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.03 min

Lab File: VF061126.D

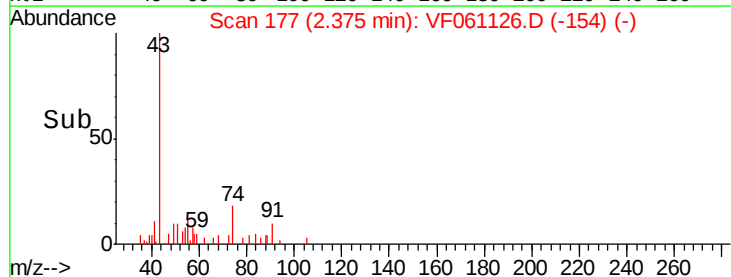
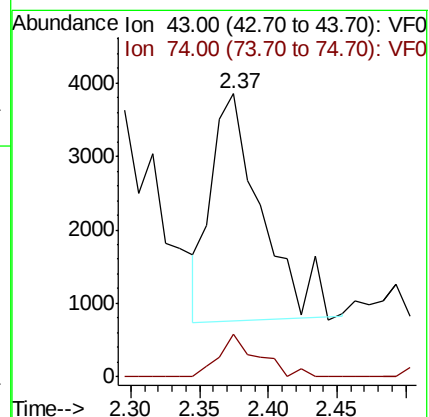
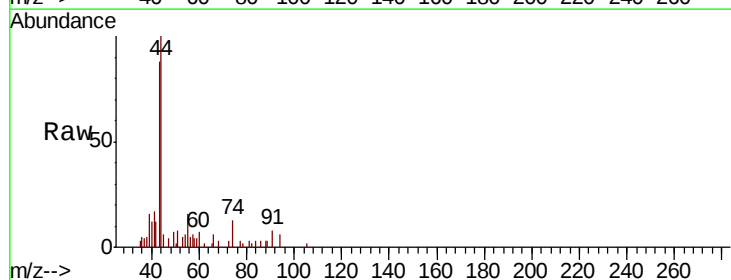
Acq: 21 Dec 2018 15:17

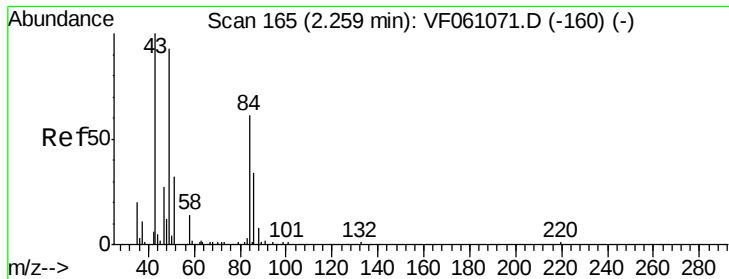
Tgt Ion: 43 Resp: 7776

Ion Ratio Lower Upper

43 100

74 15.2 11.0 16.6





#20

Methvlene Chloride

Concen: 1.905 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.05 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

EO-01-121818-CRE

Tot Ion: 84 Resp: 9605

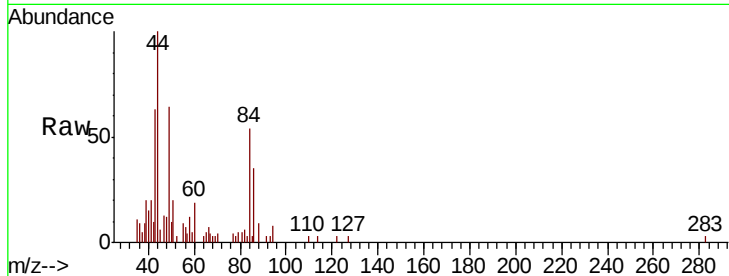
Ion Ratio Lower Upper

84 100

49 119.0 129.4 194.2#

51 36.0 44.0 66.0#

86 63.7 46.3 69.5

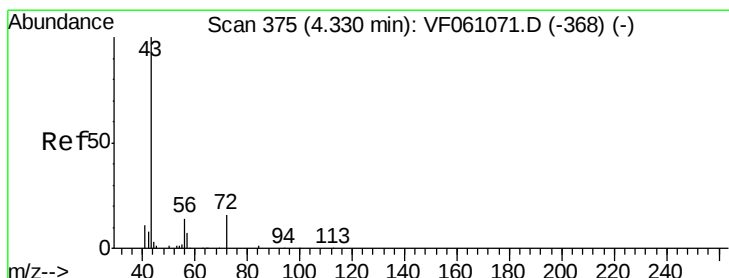
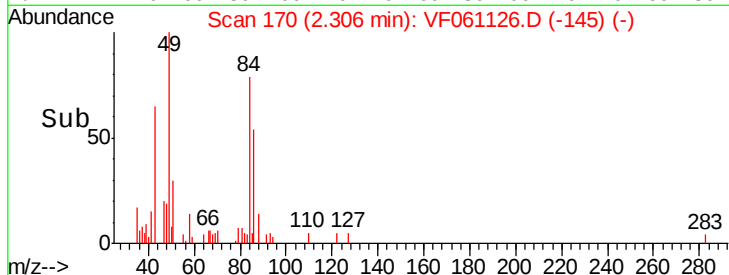
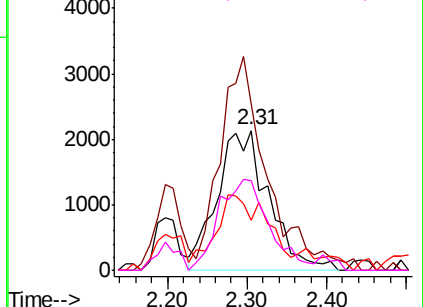


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 9.624 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.05 min

Lab File: VF061126.D

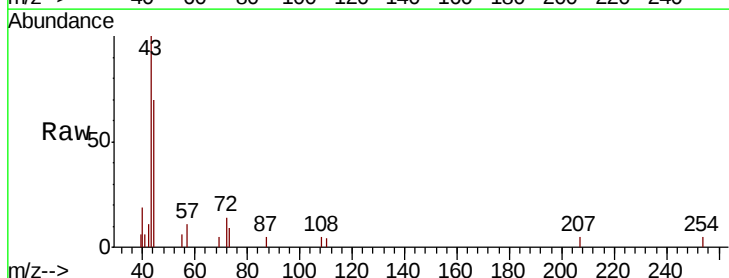
Acq: 21 Dec 2018 15:17

Tgt Ion: 43 Resp: 7535

Ion Ratio Lower Upper

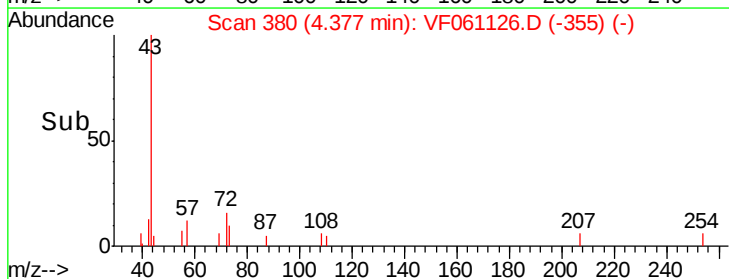
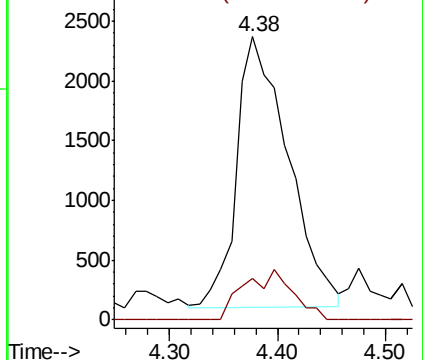
43 100

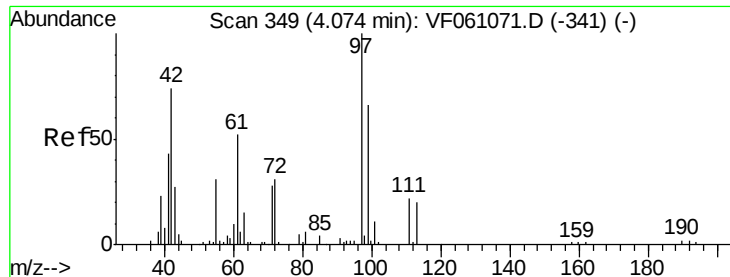
72 14.4 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.221 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.05 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

EO-01-121818-CRE

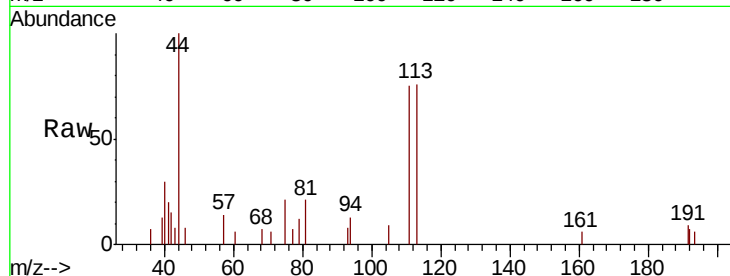
Tot Ion: 42 Resp: 389

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

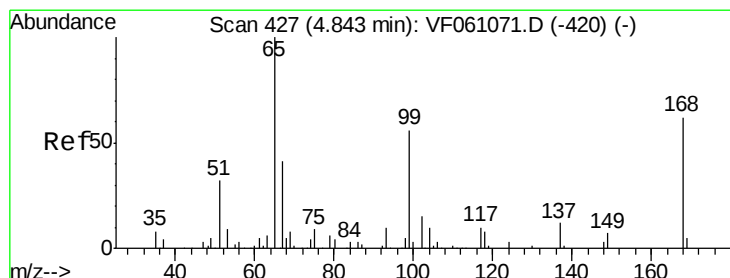
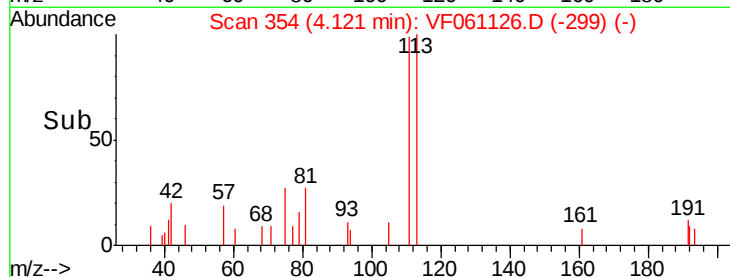
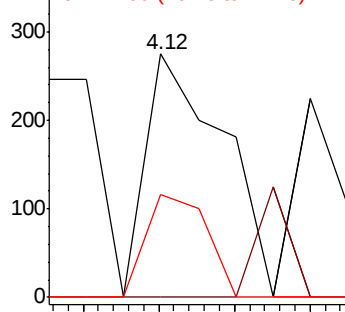
71 32.9 29.7 44.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 5.391 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.04 min

Lab File: VF061126.D

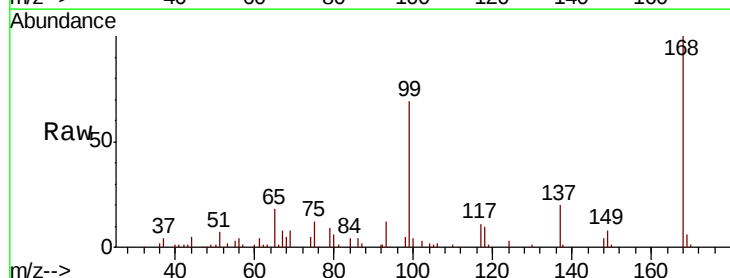
Acq: 21 Dec 2018 15:17

Tgt Ion: 65 Resp: 13019

Ion Ratio Lower Upper

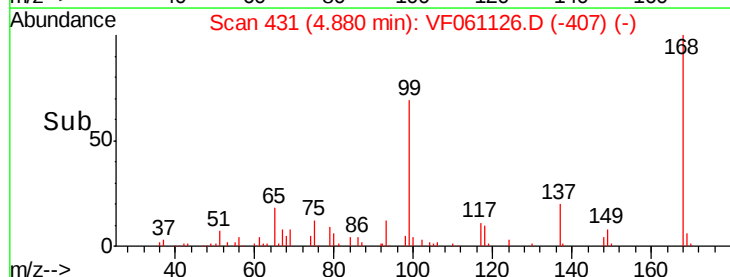
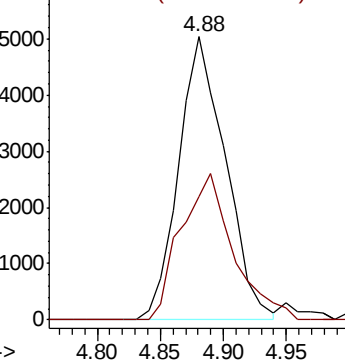
65 100

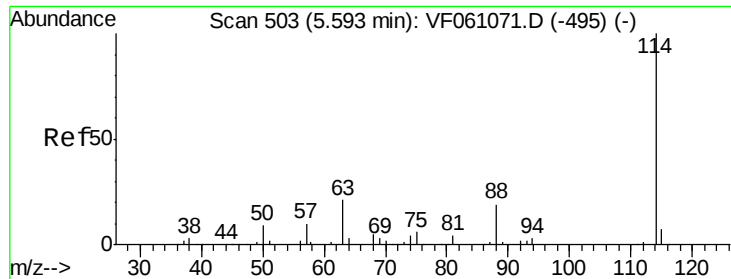
67 43.6 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

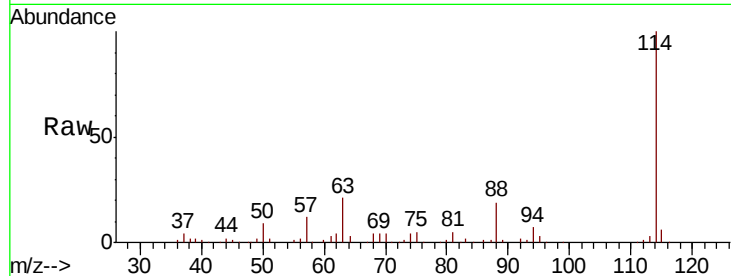




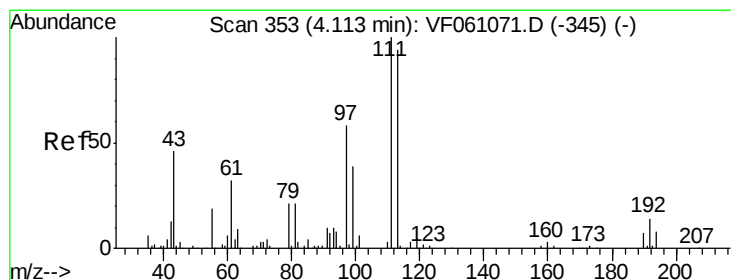
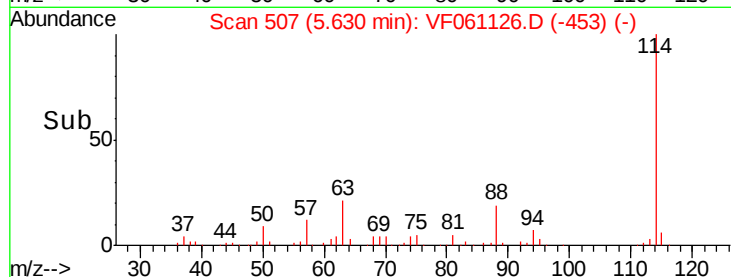
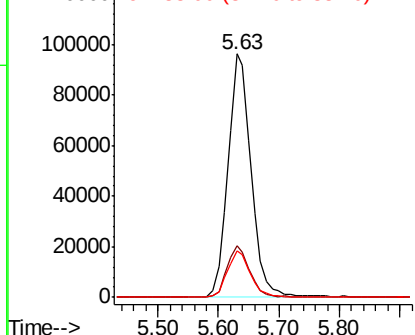
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.63 min Scan# 507
Delta R.T. 0.04 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

Tot Ion:114 Resp: 255340
Ion Ratio Lower Upper
114 100
63 21.1 0.0 41.6
88 19.1 0.0 38.0

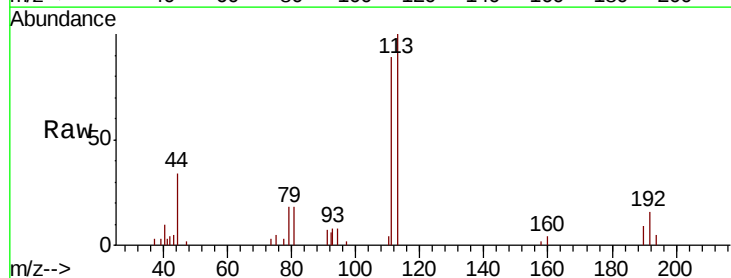


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

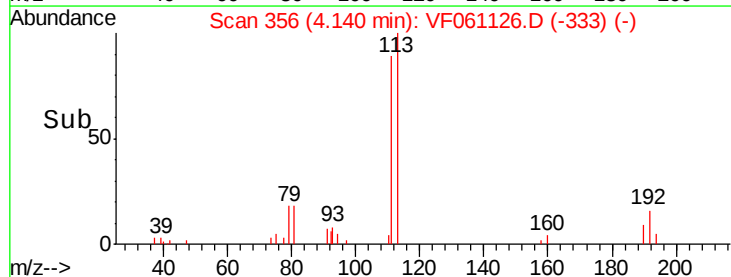
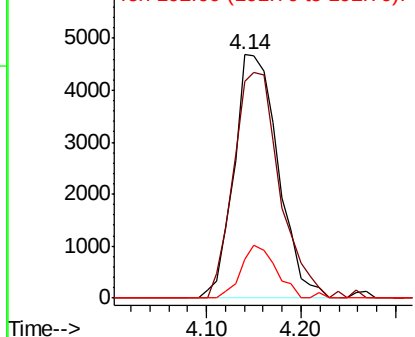


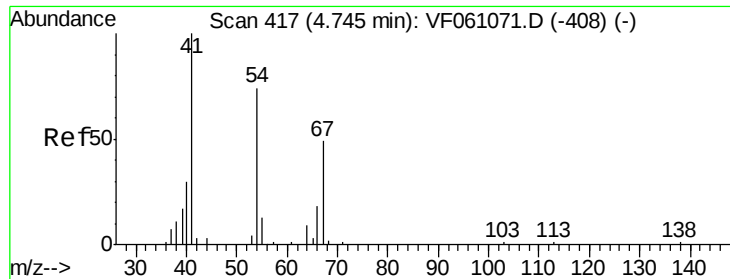
#35
Dibromofluoromethane
Concen: 7.421 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.03 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Tgt Ion:113 Resp: 15179
Ion Ratio Lower Upper
113 100
111 88.9 85.2 127.8
192 16.0 12.8 19.2



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

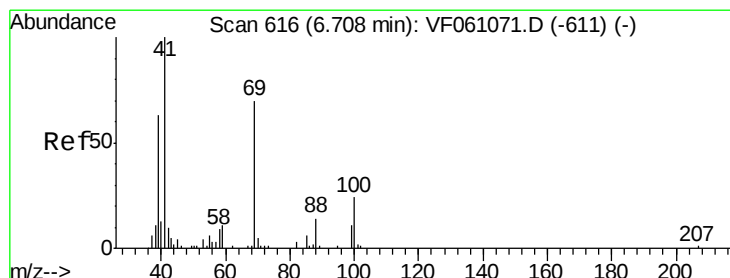
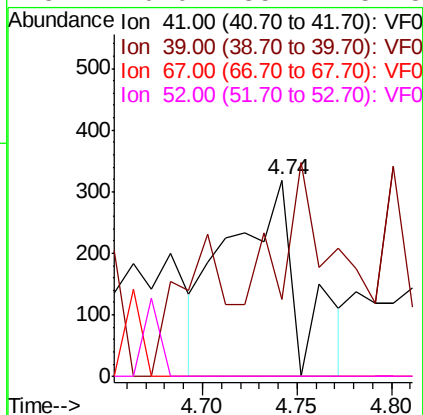
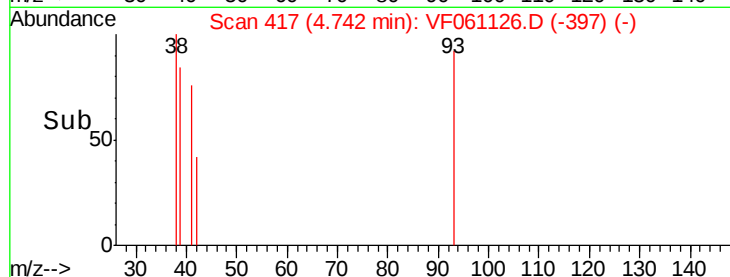
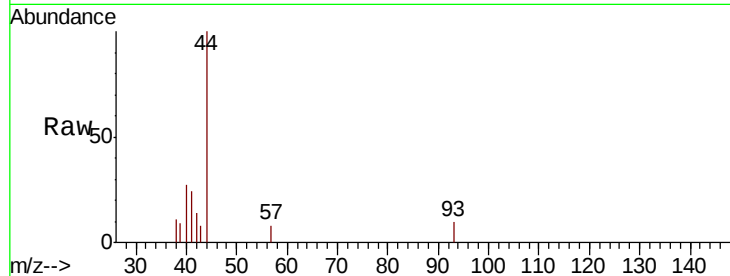




#41
Methacrylonitrile
Concen: 1.310 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.00 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

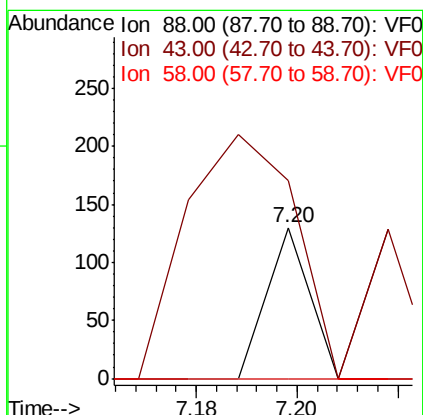
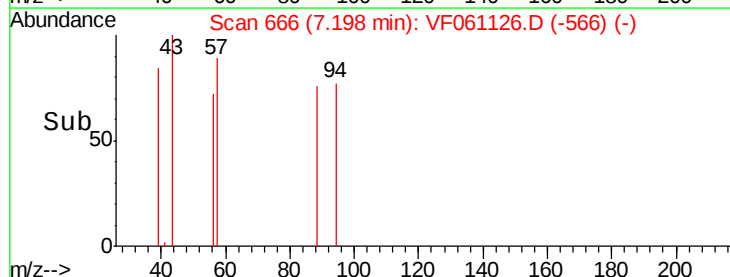
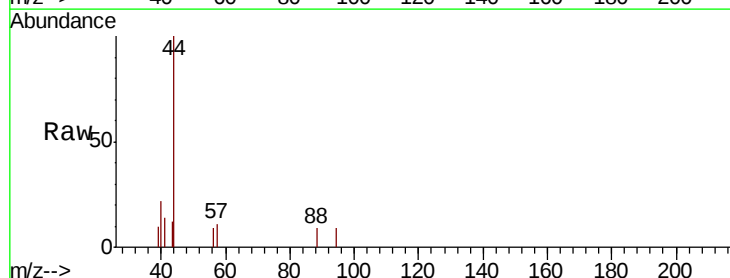
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

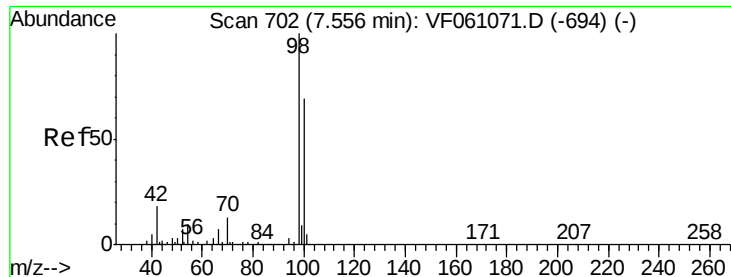
Tot Ion:	41	Resp:	853
Ion	Ratio	Lower	Upper
41	100		
39	39.5	45.7	68.5#
67	0.0	38.9	58.3#
52	0.0	35.2	52.8#



#49
1,4-Dioxane
Concen: 10.214 ug/l
RT: 7.20 min Scan# 666
Delta R.T. 0.49 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Tgt Ion:	88	Resp:	77
Ion	Ratio	Lower	Upper
88	100		
43	130.8	33.3	49.9#
58	0.0	53.2	79.8#





#50

Toluene-d8

Concen: 0.382 ug/l

RT: 7.58 min Scan# 705

Delta R.T. 0.03 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

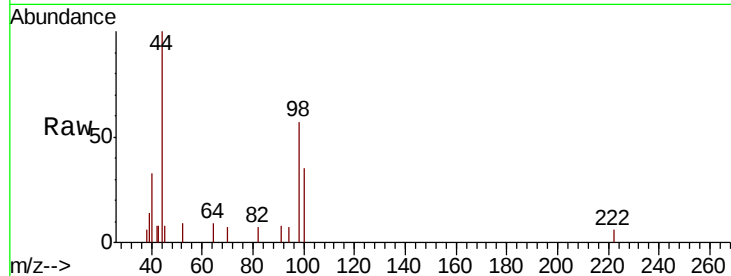
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

Tot Ion: 98 Resp: 2216

Ion Ratio Lower Upper

98 100

100 60.8 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.58

800

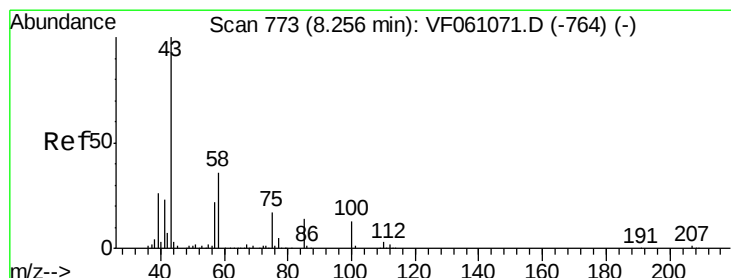
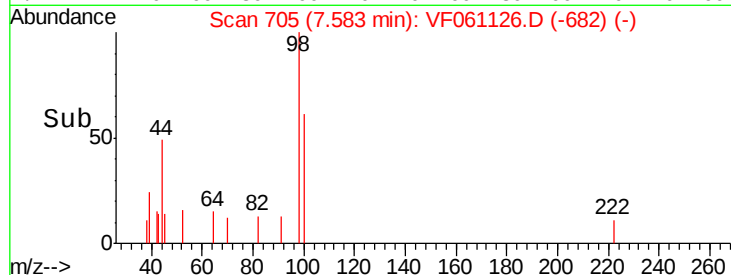
600

400

200

0

Time--> 7.50 7.55 7.60 7.65



#51

4-Methyl-2-Pentanone

Concen: 2.114 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061126.D

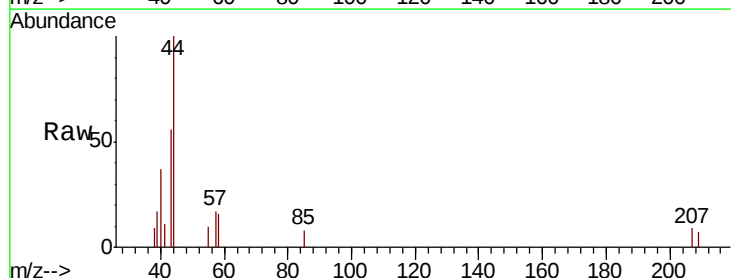
Acq: 21 Dec 2018 15:17

Tgt Ion: 43 Resp: 2158

Ion Ratio Lower Upper

43 100

58 28.9 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1200

1000

800

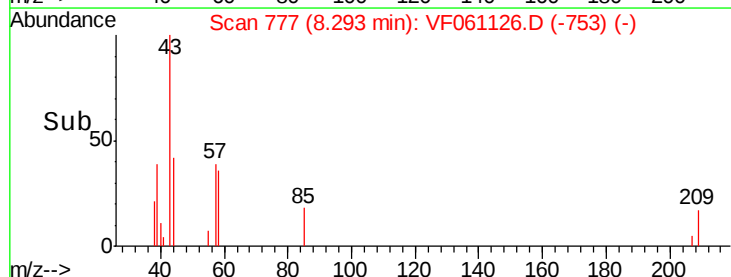
600

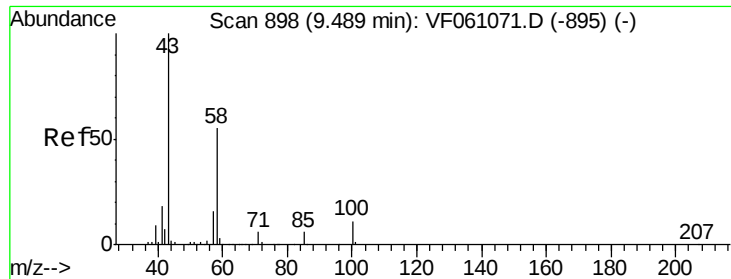
400

200

0

Time--> 8.25 8.30 8.35

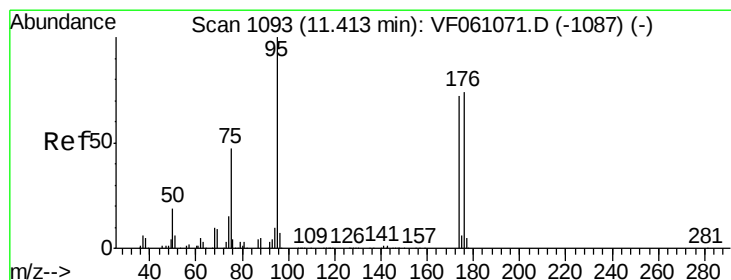
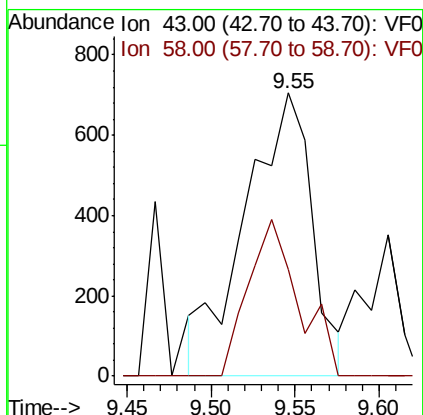
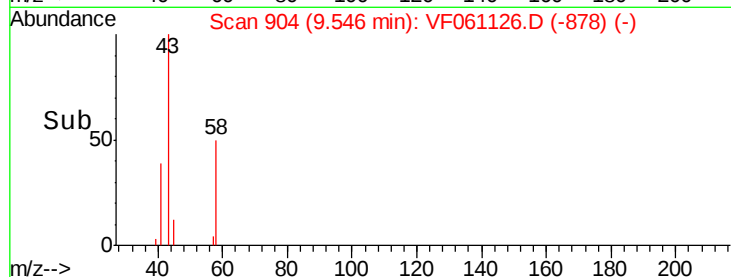
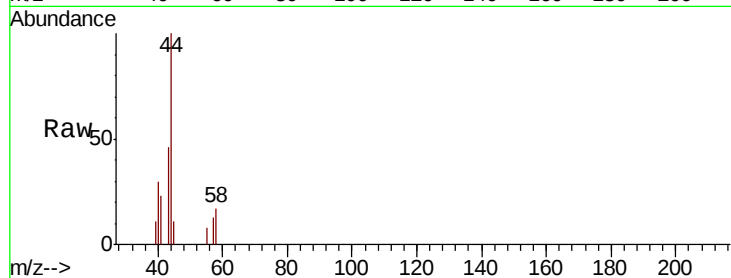




#59
2-Hexanone
Concen: 2.630 ug/l
RT: 9.55 min Scan# 904
Delta R.T. 0.06 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

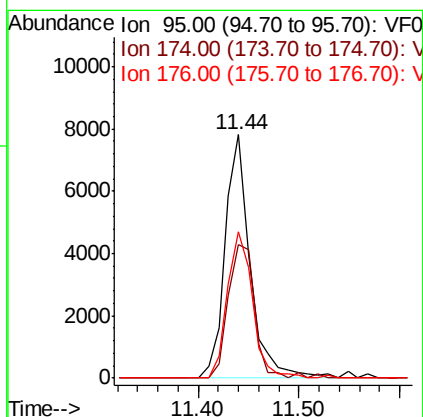
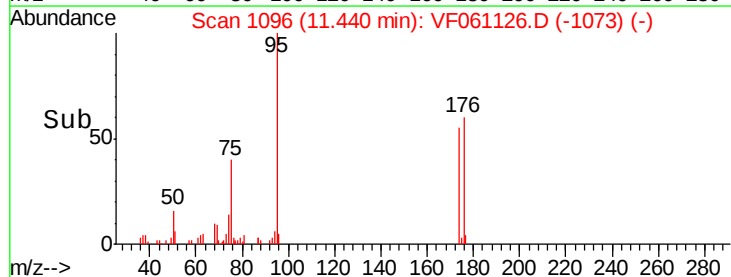
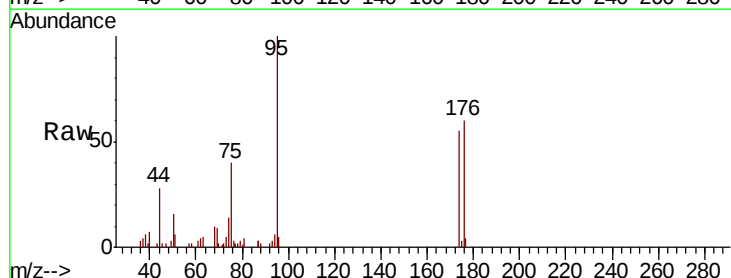
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

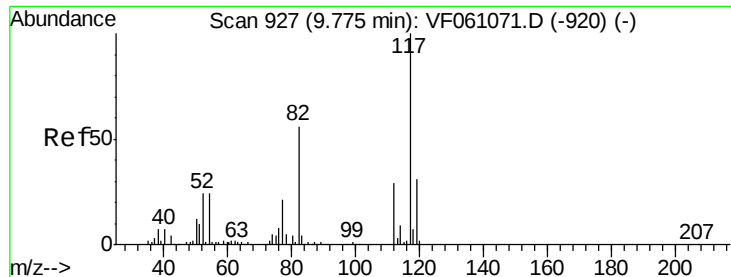
Tot Ion: 43 Resp: 1941
Ion Ratio Lower Upper
43 100
58 37.9 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 5.055 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. 0.03 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Tgt Ion: 95 Resp: 13509
Ion Ratio Lower Upper
95 100
174 54.9 0.0 143.8
176 63.8 0.0 147.6

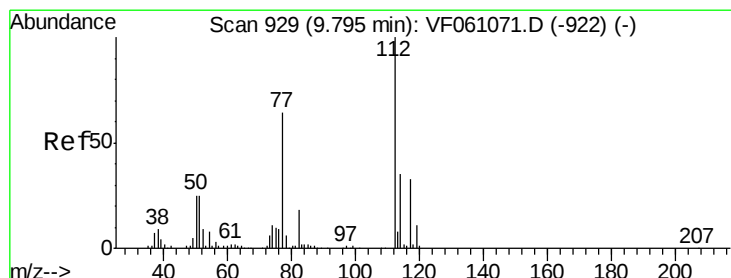
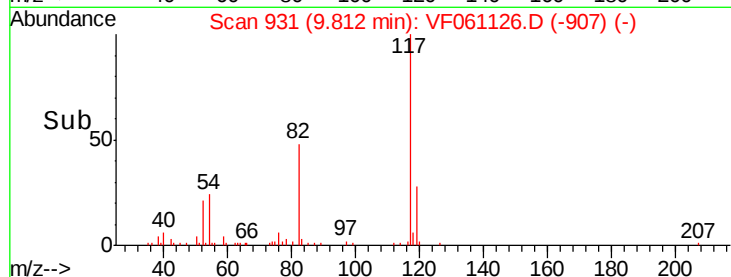
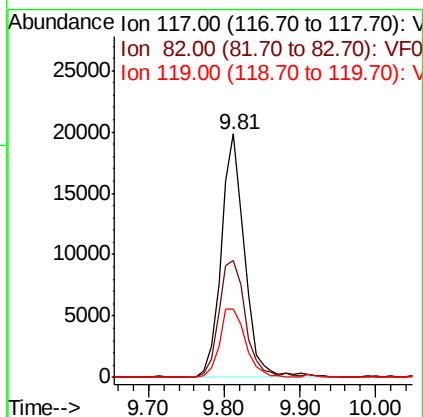
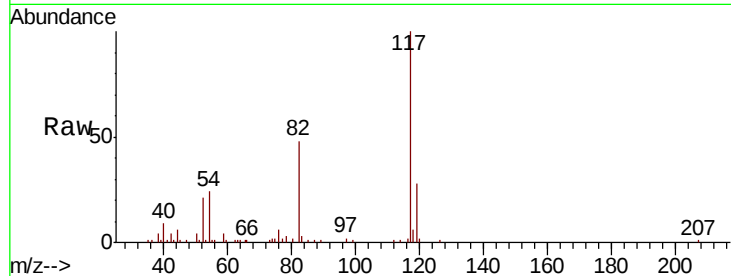




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.04 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

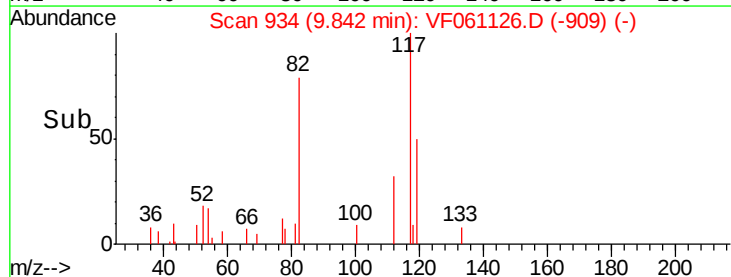
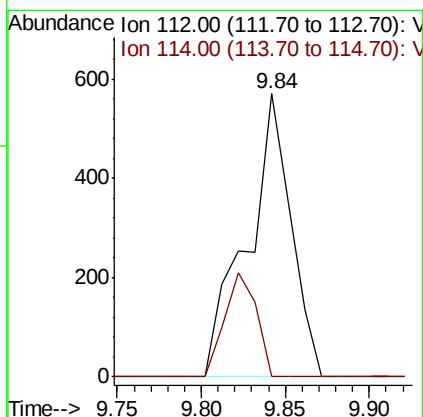
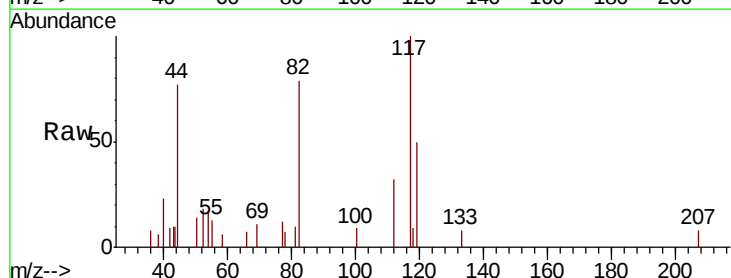
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

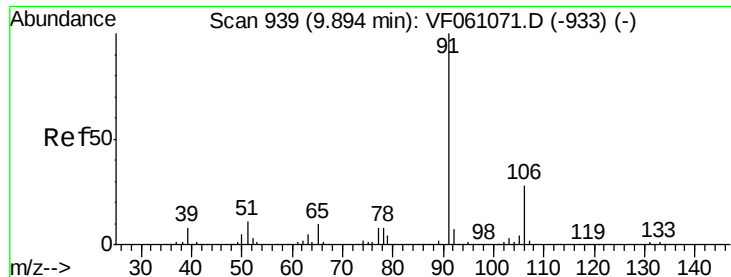
Tot Ion	Ratio	Lower	Upper
117	100		
82	48.2	45.0	67.4
119	27.9	24.8	37.2



#65
Chlorobenzene
Concen: 1.180 ug/l
RT: 9.84 min Scan# 934
Delta R.T. 0.05 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	0.0	27.8	41.6#

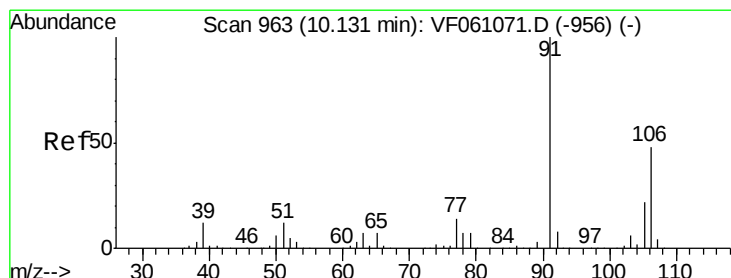
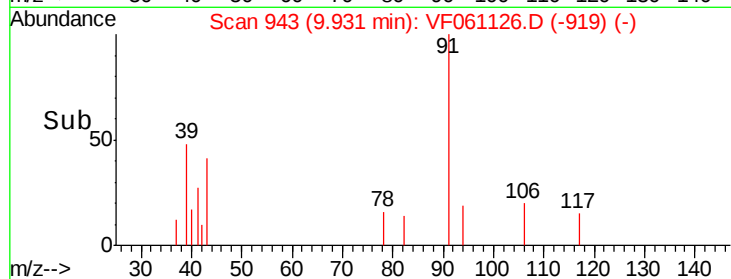
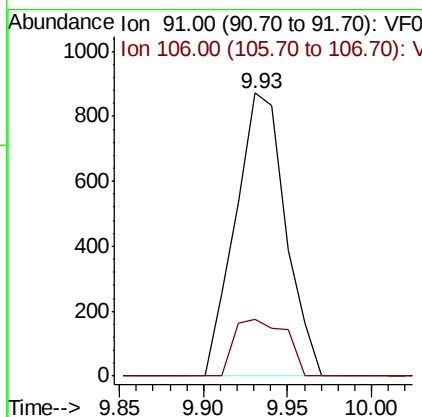
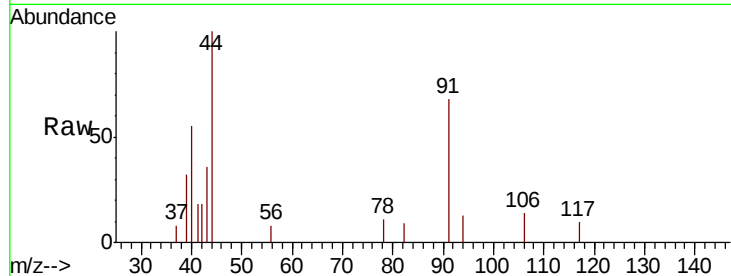




#67
Ethyl Benzene
Concen: 1.124 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.04 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

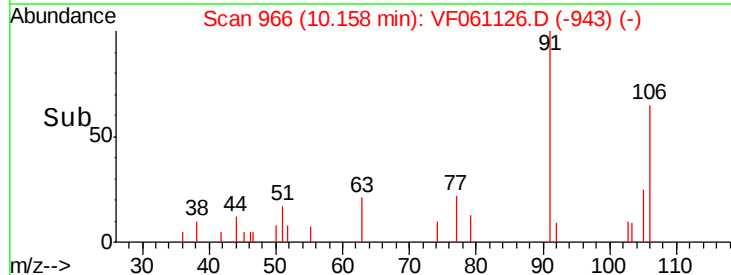
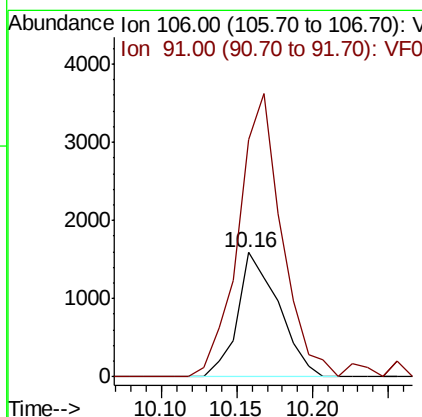
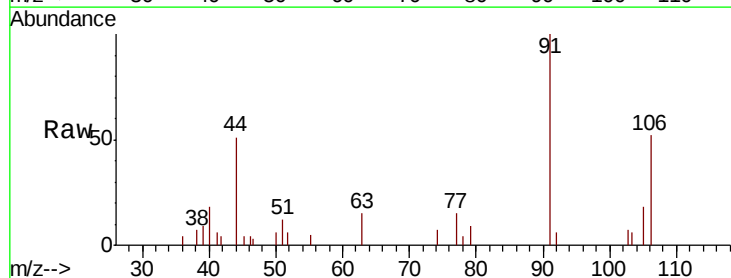
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

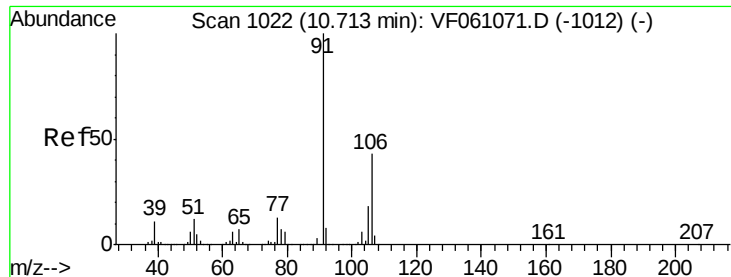
Tot Ion: 91 Resp: 1798
Ion Ratio Lower Upper
91 100
106 20.2 22.5 33.7#



#68
m/p-Xylenes
Concen: 5.341 ug/l
RT: 10.16 min Scan# 966
Delta R.T. 0.03 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Tgt Ion: 106 Resp: 3007
Ion Ratio Lower Upper
106 100
91 190.8 168.2 252.2

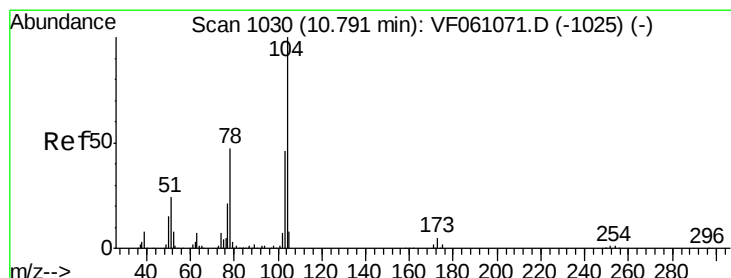
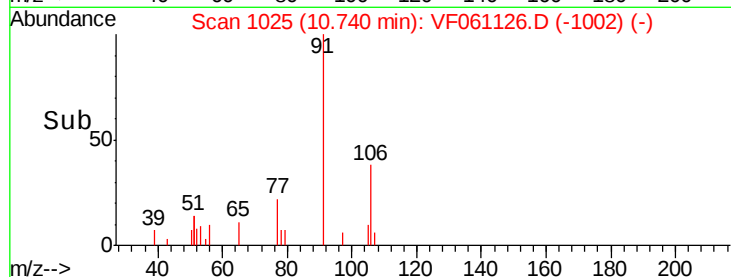
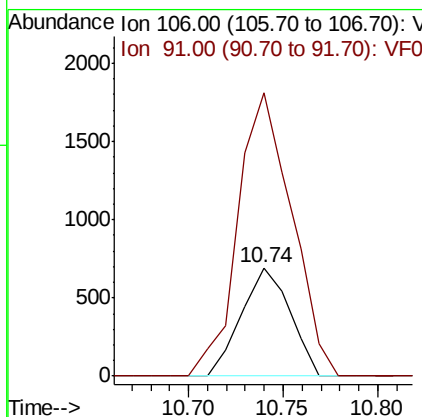
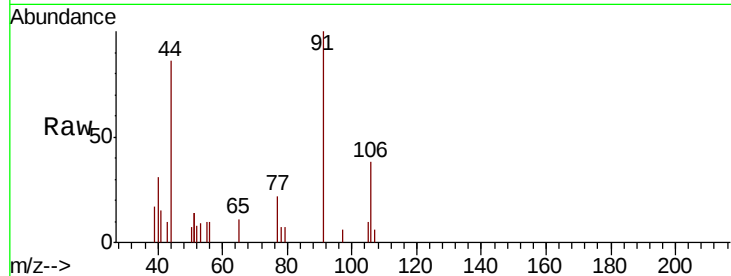




#69
o-Xylene
Concen: 1.987 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

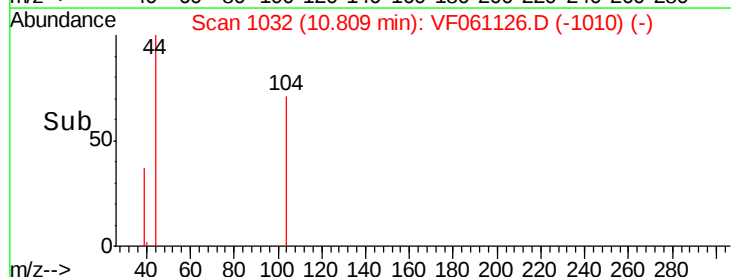
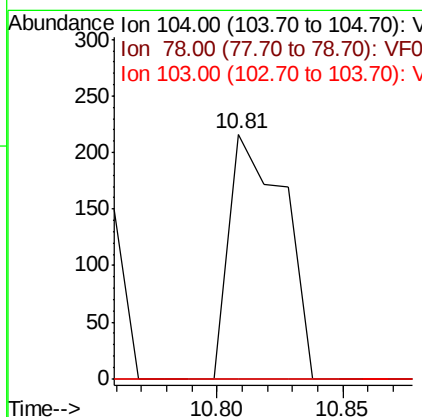
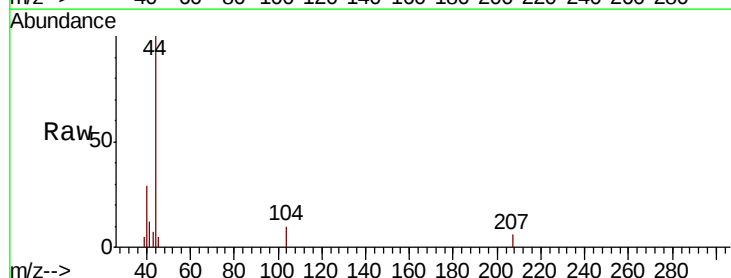
Instrument :
MSVOA_F
ClientSampleId :
EO-01-121818-CRE

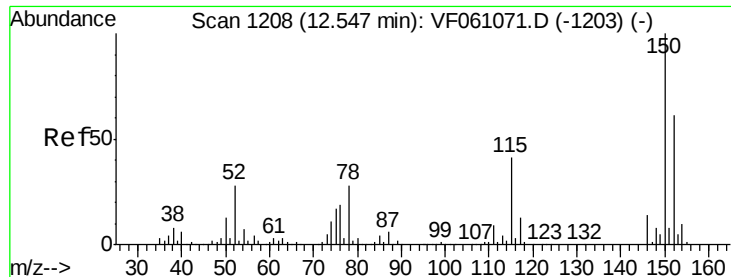
Tot Ion:106 Resp: 1241
Ion Ratio Lower Upper
106 100
91 260.8 115.9 347.7



#70
Styrene
Concen: Below Cal
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061126.D
Acq: 21 Dec 2018 15:17

Tgt Ion:104 Resp: 330
Ion Ratio Lower Upper
104 100
78 0.0 38.4 57.6#
103 0.0 37.0 55.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.03 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

Instrument :

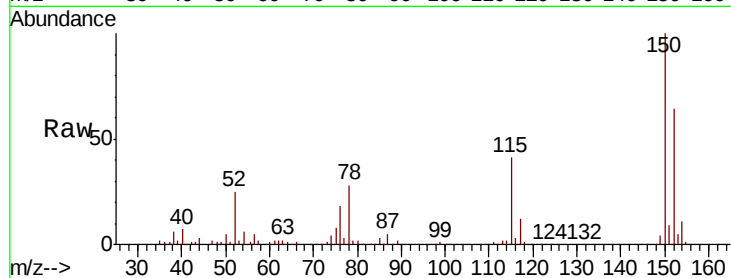
MSVOA_F

ClientSampleId :

EO-01-121818-CRE

Tot Ion:152 Resp: 74329

Ion	Ratio	Lower	Upper
152	100		
115	64.2	33.3	99.9
150	156.3	0.0	328.2



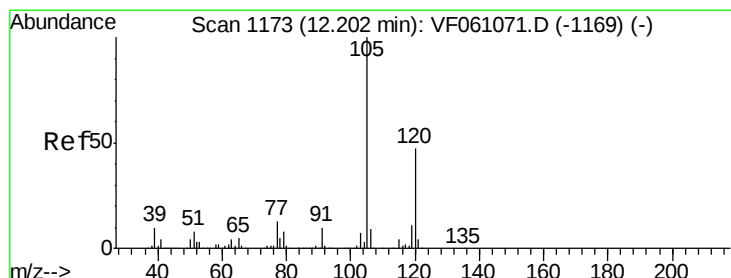
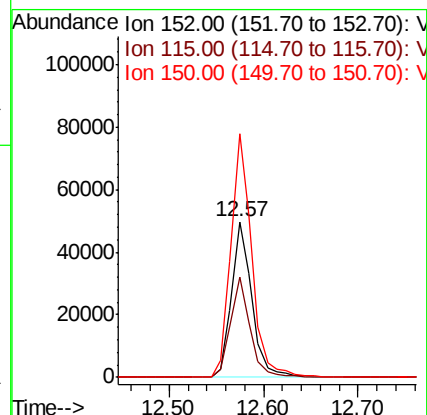
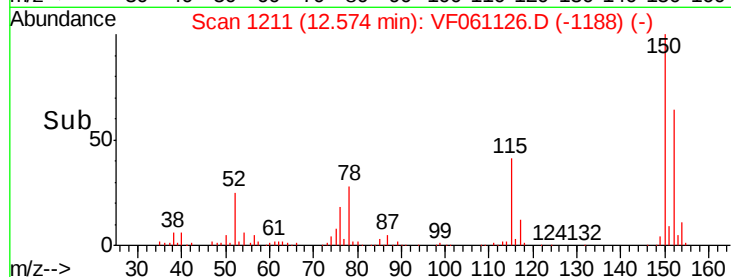
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 1.281 ug/l

RT: 12.23 min Scan# 1176

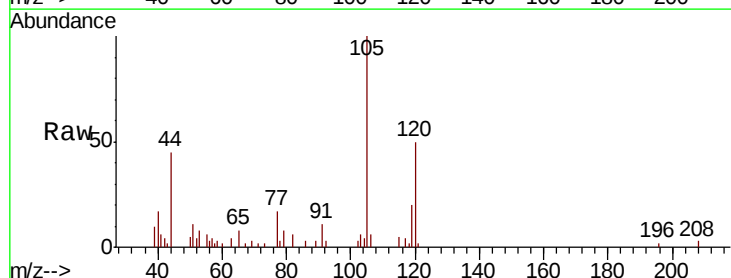
Delta R.T. 0.03 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

Tgt Ion:105 Resp: 6736

Ion	Ratio	Lower	Upper
105	100		
120	49.6	23.6	71.0

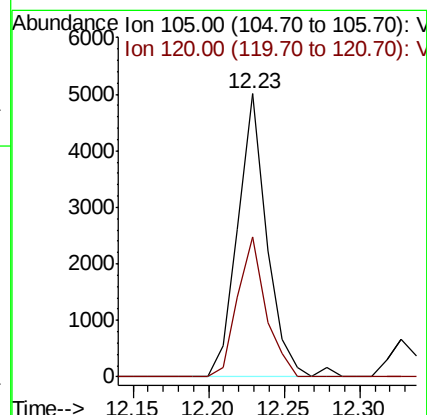
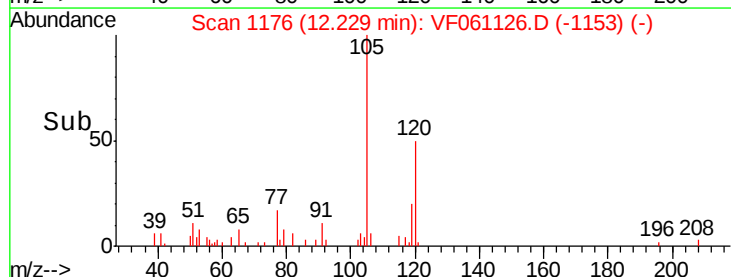


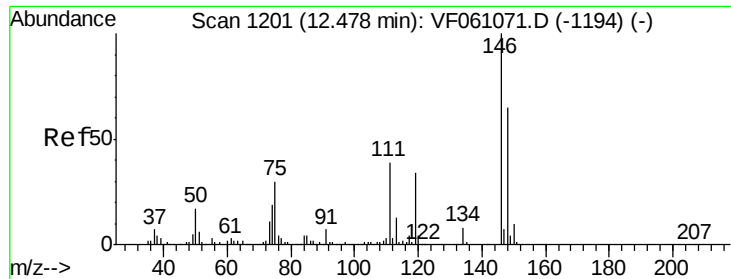
Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Time-->





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.50 min Scan# 1203

Delta R.T. 0.02 min

Lab File: VF061126.D

Acq: 21 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

EO-01-121818-CRE

Tot Ion:146 Resp: 195

Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

148 59.7 32.4 97.2

